

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 09/840,277E
Source: IFW16
Date Processed by STIC: 1/30/05

ENTERED



IFW16

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/840,277E

DATE: 01/30/2005

TIME: 11:55:41

Input Set : A:\A-688A (rev 1-18-05).ST25.txt
 Output Set: N:\CRF4\01302005\I840277E.raw

3 <110> APPLICANT: FEIGE, ULRICH
 4 KOHNO, TADAHIKO
 5 LACEY, DAVID
 6 BOONE, THOMAS CHARLES
 8 <120> TITLE OF INVENTION: ADHESION ANTAGONISTS (as amended)
 10 <130> FILE REFERENCE: A-688A
 12 <140> CURRENT APPLICATION NUMBER: US 09/840,277E
 13 <141> CURRENT FILING DATE: 2001-04-23
 15 <150> PRIOR APPLICATION NUMBER: US 60/198,919
 16 <151> PRIOR FILING DATE: 2000-04-21
 18 <150> PRIOR APPLICATION NUMBER: US 60/201,394
 19 <151> PRIOR FILING DATE: 2000-05-03
 21 <160> NUMBER OF SEQ ID NOS: 161
 23 <170> SOFTWARE: PatentIn version 3.2
 25 <210> SEQ ID NO: 1
 26 <211> LENGTH: 684
 27 <212> TYPE: DNA
 28 <213> ORGANISM: Homo sapiens
 31 <220> FEATURE:
 32 <221> NAME/KEY: CDS
 33 <222> LOCATION: (1)..(684)
 35 <400> SEQUENCE: 1
 36 atg gac aaa act cac aca tgt cca cct tgt cca gct ccg gaa ctc ctg 48
 37 Met Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu
 38 1 5 10 15
 40 ggg gga ccg tca gtc ttc ctc ttc ccc cca aaa ccc aag gac acc ctc 96
 41 Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu
 42 20 25 30
 44 atg atc tcc ccg acc cct gag gtc aca tgc gtg gtg gac gtg agc 144
 45 Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser
 46 35 40 45
 48 cac gaa gac cct gag gtc aag ttc aac tgg tac gtg gac ggc gtg gag 192
 49 His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu
 50 50 55 60
 52 gtg cat aat gcc aag aca aag ccg ccg gag gag cag tac aac agc acg 240
 53 Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr
 54 65 70 75 80
 56 tac cgt gtg gtc agc gtc ctc acc gtc ctg cac cag gac tgg ctg aat 288
 57 Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn
 58 85 90 95
 60 ggc aag gag tac aag tgc aag gtc tcc aac aaa gcc ctc cca gcc ccc 336
 61 Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro
 62 100 105 110

P.b

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/840,277E

DATE: 01/30/2005
TIME: 11:55:41

Input Set : A:\A-688A (rev 1-18-05).ST25.txt
Output Set: N:\CRF4\01302005\I840277E.raw

64 atc gag aaa acc atc tcc aaa gcc aaa ggg cag ccc cga gaa cca cag	384
65 Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln	
66 115 120 125	
68 gtg tac acc ctg ccc cca tcc cgg gat gag ctg acc aag aac cag gtc	432
69 Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val	
70 130 135 140	
72 agc ctg acc tgc ctg gtc aaa ggc ttc tat ccc agc gac atc gcc gtc	480
73 Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val	
74 145 150 155 160	
76 gag tgg gag agc aat ggg cag ccg gag aac aac tac aag acc acg cct	528
77 Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro	
78 165 170 175	
80 ccc gtg ctg gac tcc gac ggc tcc ttc ttc ctc tac agc aag ctc acc	576
81 Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr	
82 180 185 190	
84 gtg gac aag agc agg tgg cag cag ggg aac gtc ttc tca tgc tcc gtc	624
85 Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val	
86 195 200 205	
88 atg cat gag gct ctg cac aac cac tac acg cag aag agc ctc tcc ctg	672
89 Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu	
90 210 215 220	
92 tct ccg ggt aaa	684
93 Ser Pro Gly Lys	
94 225	
97 <210> SEQ ID NO: 2	
98 <211> LENGTH: 228	
99 <212> TYPE: PRT	
100 <213> ORGANISM: Homo sapiens	
102 <400> SEQUENCE: 2	
104 Met Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu	
105 1 5 10 15	
108 Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu	
109 20 25 30	
112 Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser	
113 35 40 45	
116 His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu	
117 50 55 60	
120 Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr	
121 65 70 75 80	
124 Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn	
125 85 90 95	
128 Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro	
129 100 105 110	
132 Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln	
133 115 120 125	
136 Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val	
137 130 135 140	
140 Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val	
141 145 150 155 160	

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/840,277E

DATE: 01/30/2005

TIME: 11:55:41

Input Set : A:\A-688A (rev 1-18-05).ST25.txt
Output Set: N:\CRF4\01302005\I840277E.raw

144 Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro
145 165 170 175
148 Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr
149 180 185 190
152 Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val
153 195 200 205
156 Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu
157 210 215 220
160 Ser Pro Gly Lys
161 225
164 <210> SEQ ID NO: 3
165 <211> LENGTH: 8
166 <212> TYPE: PRT
167 <213> ORGANISM: Artificial Sequence
169 <220> FEATURE:
170 <223> OTHER INFORMATION: Preferred linker
172 <400> SEQUENCE: 3
174 Gly Gly Gly Lys Gly Gly Gly Gly
175 1 5
178 <210> SEQ ID NO: 4
179 <211> LENGTH: 8
180 <212> TYPE: PRT
181 <213> ORGANISM: Artificial Sequence
183 <220> FEATURE:
184 <223> OTHER INFORMATION: Preferred linker
186 <400> SEQUENCE: 4
188 Gly Gly Gly Asn Gly Ser Gly Gly
189 1 5
192 <210> SEQ ID NO: 5
193 <211> LENGTH: 8
194 <212> TYPE: PRT
195 <213> ORGANISM: Artificial Sequence
197 <220> FEATURE:
198 <223> OTHER INFORMATION: Preferred linker
200 <400> SEQUENCE: 5
202 Gly Gly Gly Cys Gly Gly Gly
203 1 5
206 <210> SEQ ID NO: 6
207 <211> LENGTH: 5
208 <212> TYPE: PRT
209 <213> ORGANISM: Artificial Sequence
211 <220> FEATURE:
212 <223> OTHER INFORMATION: Preferred linker
214 <400> SEQUENCE: 6
216 Gly Pro Asn Gly Gly
217 1 5
220 <210> SEQ ID NO: 7
221 <211> LENGTH: 5
222 <212> TYPE: PRT

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/840,277E

DATE: 01/30/2005
TIME: 11:55:41

Input Set : A:\A-688A (rev 1-18-05).ST25.txt
Output Set: N:\CRF4\01302005\I840277E.raw

223 <213> ORGANISM: Artificial Sequence
225 <220> FEATURE:
226 <223> OTHER INFORMATION: Laminin peptide
228 <400> SEQUENCE: 7
230 Tyr Ile Gly Ser Arg
231 1 5
234 <210> SEQ ID NO: 8
235 <211> LENGTH: 49
236 <212> TYPE: PRT
237 <213> ORGANISM: Artificial Sequence
239 <220> FEATURE:
240 <223> OTHER INFORMATION: Echistatin peptide
242 <400> SEQUENCE: 8
244 Glu Cys Glu Ser Gly Pro Cys Cys Arg Asn Cys Lys Phe Leu Lys Glu
245 1 5 10 15
248 Gly Thr Ile Cys Lys Arg Ala Arg Gly Asp Asp Met Asp Asp Tyr Cys
249 20 25 30
252 Asn Gly Lys Thr Cys Asp Cys Pro Arg Asn Pro His Lys Gly Pro Ala
253 35 40 45
256 Thr
260 <210> SEQ ID NO: 9
261 <211> LENGTH: 7
262 <212> TYPE: PRT
263 <213> ORGANISM: Artificial Sequence
265 <220> FEATURE:
266 <223> OTHER INFORMATION: RGD, NGR derivative peptide
269 <220> FEATURE:
270 <221> NAME/KEY: misc_feature
271 <222> LOCATION: (2, 5 and)...(7)
272 <223> OTHER INFORMATION: Xaa is any amino acid
274 <400> SEQUENCE: 9
W--> 276 Arg Xaa Glu Thr Xaa Trp Xaa
277 1 5
280 <210> SEQ ID NO: 10
282 <400> SEQUENCE: 10
W--> 283 000
285 <210> SEQ ID NO: 11
286 <211> LENGTH: 9
287 <212> TYPE: PRT
288 <213> ORGANISM: Artificial Sequence
290 <220> FEATURE:
291 <223> OTHER INFORMATION: RGD, NGR derivative peptide
294 <220> FEATURE:
295 <221> NAME/KEY: misc_feature
296 <222> LOCATION: (2, 3, 7 and)...(8)
297 <223> OTHER INFORMATION: Xaa is any amino acid
299 <400> SEQUENCE: 11
W--> 301 Cys Xaa Xaa Arg Leu Asp Xaa Xaa Cys
302 1 5

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/840,277E

DATE: 01/30/2005
TIME: 11:55:41

Input Set : A:\A-688A (rev 1-18-05).ST25.txt
Output Set: N:\CRF4\01302005\I840277E.raw

305 <210> SEQ ID NO: 12
307 <400> SEQUENCE: 12
W--> 308 000
310 <210> SEQ ID NO: 13
311 <211> LENGTH: 9
312 <212> TYPE: PRT
313 <213> ORGANISM: Artificial Sequence
315 <220> FEATURE:
316 <223> OTHER INFORMATION: RGD, NGR derivative peptide
319 <220> FEATURE:
320 <221> NAME/KEY: misc_feature
321 <222> LOCATION: (1, 2, 3, 7, 8 and)...(9)
322 <223> OTHER INFORMATION: Xaa is any amino acid with Xaa at 1, 3, 7 and 9 capable of
323 forming a bridge.
325 <400> SEQUENCE: 13
W--> 327 Xaa Xaa Xaa Arg Gly Asp Xaa Xaa Xaa
328 1 5
331 <210> SEQ ID NO: 14
332 <211> LENGTH: 17
333 <212> TYPE: PRT
334 <213> ORGANISM: Artificial Sequence
336 <220> FEATURE:
337 <223> OTHER INFORMATION: RGD, NGR derivative peptide
340 <220> FEATURE:
341 <221> NAME/KEY: misc_feature
342 <222> LOCATION: (2, 3, 4, 5, 6, 12, 13, 14, 15 and)...(16)
343 <223> OTHER INFORMATION: At positions 2, 3, 4, 5, 6, 12, 13, 14, 15 and 16, Xaa is
any
344 amino acid or may be absent.
346 <400> SEQUENCE: 14
W--> 348 Cys Xaa Xaa Xaa Xaa Xaa Cys Arg Gly Asp Cys Xaa Xaa Xaa Xaa Xaa
349 1 5 10 15
352 Cys
356 <210> SEQ ID NO: 15
357 <211> LENGTH: 8
358 <212> TYPE: PRT
359 <213> ORGANISM: Artificial Sequence
361 <220> FEATURE:
362 <223> OTHER INFORMATION: RGD, NGR derivative peptide
365 <220> FEATURE:
366 <221> NAME/KEY: misc_feature
367 <222> LOCATION: (1 and)...(8)
368 <223> OTHER INFORMATION: Xaa is an independently selected amino acid.
370 <220> FEATURE:
371 <221> NAME/KEY: misc_feature
372 <222> LOCATION: (2 and)...(7)
373 <223> OTHER INFORMATION: Xaa is any amino acid, each which is independently selected.
375 <220> FEATURE:
376 <221> NAME/KEY: misc_feature
377 <222> LOCATION: (5)...(5)

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/840,277E

DATE: 01/30/2005
TIME: 11:55:42

Input Set : A:\A-688A (rev 1-18-05).ST25.txt
Output Set: N:\CRF4\01302005\I840277E.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:9; Xaa Pos. 2,5,7
Seq#:11; Xaa Pos. 2,3,7,8
Seq#:13; Xaa Pos. 1,2,3,7,8,9
Seq#:14; Xaa Pos. 2,3,4,5,6,12,13,14,15,16
Seq#:15; Xaa Pos. 1,2,5,6,7,8
Seq#:16; Xaa Pos. 1,2,3,6,7,8,9,10
Seq#:17; Xaa Pos. 3,5,6,13,15
Seq#:18; Xaa Pos. 2,3,4,7,15
Seq#:19; Xaa Pos. 3,4,5,6,8,13,15,18
Seq#:20; Xaa Pos. 2,5,6,7,12,13,14
Seq#:21; Xaa Pos. 1,3,6,9,12,13
Seq#:40; Xaa Pos. 3,4
Seq#:50; Xaa Pos. 2,3
Seq#:58; Xaa Pos. 5
Seq#:59; Xaa Pos. 6
Seq#:86; Xaa Pos. 3,15
Seq#:87; Xaa Pos. 13,15
Seq#:138; Xaa Pos. 1,4,5,6
Seq#:139; Xaa Pos. 1,2,5,6,7
Seq#:140; Xaa Pos. 1,2,3,6,7,8
Seq#:141; Xaa Pos. 1,2,3,4,5,8,9,10
Seq#:142; Xaa Pos. 1,4,5,6,7
Seq#:143; Xaa Pos. 1,2,3,6,7,8
Seq#:144; Xaa Pos. 1,2,3,6,7,8,9
Seq#:145; Xaa Pos. 1,2,3,4,7,8,9,10
Seq#:146; Xaa Pos. 1,2,3,4,5,8,9,10,11
Seq#:147; Xaa Pos. 1,4,5,6,7,8
Seq#:148; Xaa Pos. 1,2,5,6,7,8,9
Seq#:149; Xaa Pos. 1,2,3,6,7,8,9,10
Seq#:150; Xaa Pos. 1,2,3,4,7,8,9,10,11
Seq#:151; Xaa Pos. 1,2,3,4,5,8,9,10,11,12
Seq#:152; Xaa Pos. 1,4,5,6,7,8,9
Seq#:153; Xaa Pos. 1,2,5,6,7,8,9,10
Seq#:154; Xaa Pos. 1,2,3,6,7,8,9,10,11
Seq#:155; Xaa Pos. 1,2,3,4,7,8,9,10,11,12
Seq#:156; Xaa Pos. 1,2,3,4,5,8,9,10,11,12,13
Seq#:157; Xaa Pos. 1,4,5,6,7,8,9,10
Seq#:158; Xaa Pos. 1,2,5,6,7,8,9,10,11
Seq#:159; Xaa Pos. 1,2,3,6,7,8,9,10,11,12
Seq#:160; Xaa Pos. 1,2,3,4,7,8,9,10,11,12,13
Seq#:161; Xaa Pos. 1,2,3,4,5,8,9,10,11,12,13,14

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/840,277E

DATE: 01/30/2005
TIME: 11:55:42

Input Set : A:\A-688A (rev 1-18-05).ST25.txt
Output Set: N:\CRF4\01302005\I840277E.raw

L:276 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
L:283 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (10) SEQUENCE:
L:301 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
L:308 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (12) SEQUENCE:
L:327 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:348 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:388 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
L:436 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
L:456 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
L:480 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
L:500 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
M:341 Repeated in SeqNo=19
L:524 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
L:544 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0
L:816 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:0
L:962 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:0
L:1108 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58 after pos.:0
L:1128 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59 after pos.:0
L:1524 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:86 after pos.:0
L:1544 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:87 after pos.:0
L:2634 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:138 after pos.:0
L:2670 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:139 after pos.:0
L:2706 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:140 after pos.:0
L:2742 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:141 after pos.:0
L:2778 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:142 after pos.:0
L:2814 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:143 after pos.:0
L:2850 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:144 after pos.:0
L:2886 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:145 after pos.:0
L:2922 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:146 after pos.:0
L:2958 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:147 after pos.:0
L:2994 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:148 after pos.:0
L:3030 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:149 after pos.:0
L:3066 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:150 after pos.:0
L:3102 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:151 after pos.:0
L:3138 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:152 after pos.:0
L:3174 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:153 after pos.:0
L:3210 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:154 after pos.:0
L:3246 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:155 after pos.:0
L:3282 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:156 after pos.:0
L:3318 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:157 after pos.:0
L:3354 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:158 after pos.:0
L:3390 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:159 after pos.:0
L:3426 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:160 after pos.:0
L:3462 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:161 after pos.:0